

Early Journal Content on JSTOR, Free to Anyone in the World

This article is one of nearly 500,000 scholarly works digitized and made freely available to everyone in the world by JSTOR.

Known as the Early Journal Content, this set of works include research articles, news, letters, and other writings published in more than 200 of the oldest leading academic journals. The works date from the mid-seventeenth to the early twentieth centuries.

We encourage people to read and share the Early Journal Content openly and to tell others that this resource exists. People may post this content online or redistribute in any way for non-commercial purposes.

Read more about Early Journal Content at http://about.jstor.org/participate-jstor/individuals/early-journal-content.

JSTOR is a digital library of academic journals, books, and primary source objects. JSTOR helps people discover, use, and build upon a wide range of content through a powerful research and teaching platform, and preserves this content for future generations. JSTOR is part of ITHAKA, a not-for-profit organization that also includes Ithaka S+R and Portico. For more information about JSTOR, please contact support@jstor.org.

tions of a number of large resin ducts were observed. The accompanying illustrations are self-explanatory.—Mel T. Cook, *Ohio State University*, *Columbus*, *Ohio*.

A ROOT ROT OF APPLE TREES CAUSED BY THELEPHORA GALACTINA FR.

For thirty years or more apple growers in West Virginia, Kentucky, southern Illinois, Missouri, Arkansas, and Oklahoma, have lost numerous trees from root diseases of various kinds. The trees attacked were generally young trees, from three to six years old. During the last few years investigations have been carried on in several states, which show that the death of apple and other fruit trees, because of root disease, is due to a number of different diseases; in other words, that the term "root-rot" cannot always be applied to one dis-Several fungi have been associated with root rot diseases. One of these is widely distributed as a parasite of trees in the states mentioned above. Apple trees set out on newly cleared ground are attacked by the fungus very soon after planting. The trees show no signs of disease until the year of death. Diseased trees four and five years old, with their root system almost entirely destroyed, can often be recognized by excessive flower and fruit production, a phenomenon frequently noted when plants are much weakened by disease. eased trees die very suddenly, generally in the early summer. leaves wither and fall and within a few weeks the tree is dead. eased trees always occur in groups, which indicates that the fungus spreads through the soil.

The root rot disease caused by Thelephora differs from that caused by Agaricus melleus in that no signs of disease are evident above ground until the trees are dead. The fungus causing this disease has been identified by Dr. E. A. Burt as Thelephora galactina Fr. The fruiting body consists of bright red orange leathery sheets which form on diseased roots and around the base of the trunk. The fungus was transferred from oak roots to young apple trees, killing the latter within a year.

An extended account of the mode of occurrence and growth of *Thelephora galactina* will be published before long.—HERMANN VON SCHRENK, *Shaw School of Botany*, *St. Louis*.